

UV REFLECTING MATERIALS FOR LED LAMPS USING UV-EMITTING DIODES

ABSTRACT

5 A light source comprising a light emitting component comprised of a
semiconductor material, at least one phosphor material, at least one UV reflecting
material, and optionally, at least one silicone layer and at least one encapsulant, is
provided. This light source provides safety to the user against UV exposure and
protection to other components within the device that may degrade upon exposure to UV
10 radiation. Furthermore, the UV reflecting material reflects unconverted UV light back
into the phosphor layer where it is converted to visible light, resulting in increased output
from the light source.

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